

REMARKS

STATUS OF THE CLAIMS

Claims 1-20 are pending in the application.

Claims 1-20 are rejected.

Claims 1 and 13 are amended.

Thus, claims 1-20 remain pending for reconsideration, which is respectfully requested.

No new matter has been added in this Amendment. The rejections are hereby traversed.

CLAIM REJECTIONS – 35 U.S.C. § 102

Claims 1-2 and 13-14 were rejected under 35 U.S.C. 102(b) as being anticipated by Endo et al. (U.S. Patent No. 5,801,713, issued on September 1, 1998).

Claims 3-12 and 15-20 were rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al. (U.S. Patent No. 5,801,713) as applied to claims 1-2 and 13-14 above, and further in view of Palmer et al. (U.S. Patent No. 6,002,798, issued on December 14, 1999).

Endo relates to an electronic book, which is an alternative to a hardcopy book as a printed material. It relates particularly to an apparatus for displaying electronic books including moving image data in which animations and neon signs are displayed and changed over time. An object of Endo is to select an optimum moving image data displaying method, thereby meeting demands of users during automatic page-turning.

In Endo, the data browsing apparatus has two modes, a normal mode and an automatic page-turning mode (see column 3, line 66 to column 4, line 5), and one of options A1-A4 of FIG. 3 and one of options B1-B2 of FIG. 4 are selected by the keyboard (see column 5, lines 16-47). That is, in Endo, one of the four options A1-A4 of ***moving image display methods*** is selected for automatic page-turning, and in addition, including either of the following two display priority modes, option B1 and option B2, is selected. Therefore, Endo provides dynamic picture display parameters in the automatic page-turning mode, which include a frame display time (w), a frame display pitch (m), and a display priority (r), as shown in FIGS. 3 and 4 of Endo. In Endo's FIG. 4, for display priority options, as option B1, page-turning overrides moving image

display under the automatic page-turning mode (after elapse of a specific page-turning interval, the moving image display under the selected option is interrupted, and the next page is displayed). In option B2, moving image display overrides page-turning under the automatic page-turning mode. With Endo's ***moving image display methods***, even when an electronic book contains moving image display, pages are accurately turned ***at a specific time interval T***, and ***the moving image display method*** under the automatic page-turning mode is selected according to demands of users. However, Endo does not allow setting ***both*** a page-turning speed and a reading display method that corresponds to a user's desired paging speed via "a plurality of automatic paging display modes."

As already mentioned, Endo as described in FIG. 5 and column 6, lines 18-23, allows only one page-turning speed mode in automatic page-turning. The options that can be selected in Endo are the ***moving image display methods*** (A1-A4) and ***whether page-turning overrides moving image display*** (B1-B2). However, the claimed present invention not only provides ***a plurality of reading display modes*** but also provides ***a corresponding plurality of conducting the paging at different speeds***, thereby providing "a plurality of automatic paging display modes." In contrast to Endo, the claimed present invention provides, ***providing a plurality of automatic paging display modes of conducting page ejection (paging) at different speeds*** and ***successively displaying*** partially or schematically the contents of each page of said document contents on said displaying section ***according to a display method corresponding to each of said different speeds***." In the present invention, during automatic paging display, users can select one of the automatic paging display modes, which corresponds to ***both the user's desired readability and corresponding paging speed***, thereby reaching a desired page rapidly, easily, and reliably. Further, operability and a page-turning function closer to those of a hardcopy book are also realized.

That is, in Endo, the page-turning speed is determined so that a moving image is allowed to be played in a certain display image, and the speed has nothing to do with the speed of human perception. For example, Endo, column 5, lines 20-24, discloses, "option A1 represents a normal display mode. Thus, all data in the page is displayed for the page-turning interval T. The option A2 represents a fast (e.g., high-speed) display. The display time for each frame of animation data in dynamic pictures is reduced with this option." In contrast to this, in the claimed present invention, users can select an optimal paging speed ***according to their visual properties*** (i.e., according to their readability). Thus, page-turning of all the pages of an electronic book can be performed at speeds optimum to the speed of human perception.

Endo fails to disclose, "***successively displaying*** partially or schematically the contents of each page of said document contents on said displaying section ***according to a display method corresponding to each of said different speeds.***"

Endo, does not disclose or suggest anything about the foregoing characteristic features of the claimed present invention, and in contrast to Endo, the independent claims 1 and 13 are amended to further emphasize the patentably distinguishing features of the present invention, as follows:

1. (CURRENTLY AMENDED) A display apparatus comprising:
 - a displaying section for displaying document contents made up in units of page;
 - a displaying control section for controlling a display state of said displaying section;
 - means for providing a reading display mode of displaying the whole contents of each page of said document contents on said displaying section;
 - means for ***providing a plurality of automatic paging display modes of conducting page ejection (paging) at different speeds*** and successively displaying partially or schematically the contents of each page of said document contents on said displaying section ***according to a display method corresponding to each of said different speeds***; and
 - selecting means for ***selecting*** one of said reading display mode and said plurality of ***automatic paging display modes***,
 - wherein when automatic paging display of said document contents is performed, said display control section controlling controls the display state of said displaying section to ***display said document contents on said displaying section in the selected an automatic paging display mode corresponding to a user's desired paging speed, said automatic paging display mode being selected from said plurality of automatic paging display modes by the user*** with said selecting means.

In other words, the claimed present invention provides, "***providing a plurality of automatic paging display modes of conducting page ejection (paging) at different speeds*** and ***successively displaying*** partially or schematically the contents of each page of said document contents on said displaying section ***according to a display method corresponding to each of said different speeds***," and the claimed present invention, "controls the display state of said displaying section to ***display said document contents on***

said displaying section in the selected an automatic paging display mode corresponding to a user's desired paging speed, said automatic paging display mode being selected from said plurality of automatic paging display modes by the user (i.e., select a reading display mode which corresponds to a user's desired paging speed). Endo fails to disclose or suggest allowing a user to automatically set a paging speed (display time per page) with each automatic paging display mode, **and** to automatically set a display method with each automatic paging display mode (each speed), as described in page 30, line 1 to page 31, line 9 and FIGS. 3 and 4 of the present Application.

Support for the claim amendments can be found, for example, on page 18, lines 3-9 and page 20, line 25 to page 23, line 20, and FIGS. 3 and 4 of the present Application. See also, page 60, line 14 to page 62 of the present Application.

More particularly, in contrast to Endo and Palmer, the claimed present invention as recited in dependent claims 2 and 14, using claim 2 as an example, provides,

2. (Original) A display apparatus according to claim 1, wherein said plurality of automatic paging display modes includes at least two modes of **a cursory reading display mode** of making display so that the outline of the contents of each page is seizable to a reader and **a general view display mode** of conducting page ejection (paging) at a speed higher than that of said cursory reading display mode to make display **so that the whole of each page is generally viewable to said reader**.

See, page 22, lines 7-22 of the present Application. Endo's automatic page-turning options B1 and B2, which is relied upon by the Examiner to reject dependent claims 2 and 14, control **whether page-turning overrides moving image display**, which differs from a reading mode of "**a cursory reading display mode**" or "**a general view display mode**." Further, Palmer does not disclose or suggest correlating reading display modes with automatic paging speeds to provide the claimed present invention's, "**providing a plurality of automatic paging display modes of conducting page ejection (paging) at different speeds and successively displaying** partially or schematically the contents of each page of said document contents on said displaying section **according to a display method corresponding to each of said different speeds**" (e.g., claims 1 and 13).

Accordingly, Endo does not disclose or suggest the subject matters of claims 1-2 and 13-14 of the claimed present invention, and the effects and benefits of Endo are different from those of the claimed present invention. Further, since Endo does not disclose or suggest the

subject matters of claims 1-2 and 13-14, the subject matters of claims 3-12 and 15-20 are not easily conceivable to the ordinarily skilled in the art even in view of Palmer.

CONCLUSION


In view of the claim amendments and remarks, withdrawal of the rejections of pending claims and allowance of pending claims is respectfully requested.

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

Respectfully submitted,
STAAS & HALSEY LLP

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By: 
Mehdi D. Sheikerz
Registration No. 41,307

1201 New York Avenue, NW, Suite 700
Washington, D.C. 20005
Telephone: (202) 434-1500
Facsimile: (202) 434-1501